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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/455,623	12/07/1999	ROBERT JOHN BAIYOR	BAIYOR-1-9-1	5406
7590	03/10/2005		EXAMINER	
FAY, SHARPE, FAGAN, MINNICH & MCKEE, LLP			NGUYEN, QUYNH H	
1100 SUPERIOR AVENUE			ART UNIT	PAPER NUMBER
SEVENTH FLOOR			2642	
CLEVELAND, OH 44114-2518			DATE MAILED: 03/10/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	09/455,623	BAIYOR ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	Quynh H Nguyen	2642	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

1) Responsive to communication(s) filed on 18 October 2004.  
 2a) This action is **FINAL**.                            2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

4) Claim(s) 5-11,13,15-27,29-34,37-40 and 44-57 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) 15-17,30-34,47-49,56 and 57 is/are allowed.  
 6) Claim(s) 5-11,13,18-27,29,37-40,44-46 and 50-55 is/are rejected.  
 7) Claim(s) \_\_\_\_\_ is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

1) Notice of References Cited (PTO-892)                            4) Interview Summary (PTO-413)  
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)                            Paper No(s)/Mail Date. \_\_\_\_\_.  
 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
     Paper No(s)/Mail Date \_\_\_\_\_.                                    5) Notice of Informal Patent Application (PTO-152)  
     6) Other: \_\_\_\_\_.

## **DETAILED ACTION**

1. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

### ***Response to Amendment***

2. Applicant's amendment filed on October 18, 2004 has been entered. Claims 5, 7-11, 13, 15-22, 24-27, 29-34, 37-39, and 44-57 have been amended. Claims 1-4, 12, 14, 28, 35-36, and 41-43 have been cancelled. No claims have been added. Claims 5-11, 13, 15-27, 29-34, 37-40, and 44-57 are still pending in this application, with claims 5, 13, 17, 22, 29, 32, 39, 46, 49, 52, 53, and 56 being independent.

### ***Claim Rejections - 35 USC § 103***

3. Claims 5-9, 18-20, 22-26, 29, 37-40, and 44-46 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kugell et al. (U.S. Patent 5,802160) in view of Caldwell (U.S. Patent 5,644,624).

Regarding claims 5, Kugell et al. teach the steps of: receiving an incoming call leg as the result of a person placing the incoming call leg ("a calling party places a call at a calling telephone number 11") to a primary directory number ("representative telephone number"), the incoming call leg designating the primary directory number (col. 4, lines 3-36); a plurality of secondary directory numbers associated with the primary directory number (col. 1, lines 51-57 and col. 2, lines 15-22); processing and routing

outgoing call legs associated with directory numbers to form a plurality of outgoing call legs (col. 6, line 61 through col. 7, line 3); monitoring the plurality of outgoing call legs for a plurality of answering events (col. 7, lines 4-6); and connecting an answered outgoing call legs associated with the plurality of answering events, to the incoming call leg for a multiple leg telecommunication conferencing session (col. 3, lines 26-30); continuing to alert an unanswered outgoing call leg, of the plurality of outgoing call legs, until a predetermined period of time has elapsed (col. 8, lines 50-53); releasing any outgoing call leg, of the plurality of outgoing call legs, which has remain unanswered (col. 7, lines 4-6).

Kugell et al. do not teach when a predetermined period of time has elapsed, processing and routing a second outgoing call leg to a corresponding secondary directory number associated with a previously unanswered outgoing call leg.

Caldwell teaches after a desired time period of an unsuccessful call attempt, the system retries the call again (col. 4, lines 3-9).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the features of attempting to retry or routing the unsuccessful or unanswered call again after a predetermined or elapsed time, as taught by Caldwell, in Kugell 's system in order to have a user friendly system and also allow the party that missed the call for some reasons has a chance to join the conference call when the system calling him or her again after a predetermined period of time.

Regarding claims 6-7, Kugell et al. teach releasing any outgoing call leg, of the plurality of outgoing call legs, which has remain unanswered (col. 7, lines 4-6).

Regarding claims 8-9, 18-19, 24-25, 37-38, and 44-45, Kugell et al. do not suggest terminating the multiple leg telecommunication conference session upon termination of the incoming call leg, or a penultimate call leg remaining from a plurality of call legs forming the multiple leg telecommunication conferencing session. Terminating the conference session upon a penultimate call leg being terminated is obvious and well known in the art, and the advantage of using it is also well known, simply there would not be a conference if there were only one conferee left.

Claim 22 is rejected for the same reasons as discussed above with respect to claim 5. Furthermore, Kugell et al. teach a database having stored in a memory a plurality directory numbers ("microprocessor 142 and its associated memory 143") (col. 5, lines 1-5); and a switching center coupled to the database (Fig. 1, 12 and 14).

Regarding claims 20 and 26, Kugell et al. do not suggest the database is a home location register. The home location register is inherent in mobile communication and it has the same function as the database in the switching network.

Claims 23 and 40 are rejected for the same reasons as discussed above with respect to claim 6.

Claim 29 is rejected for the same reasons as discussed above with respect to claims 22. Furthermore, Kugell et al. further teach the database for subscriber determination (adding numbers to conferencing mode or deleting numbers from the conference) of the plurality of secondary directory numbers (col. 1, line 66 through col. 2, line 6). Kugell et al. do not explicitly teach providing an interface to the database. It would have been obvious to one of ordinary skill in the art at the time the invention was

made that one could add or delete numbers from the list stored at the telephone company via some kind of interface. For example, via telephone keypad, Internet access via computer, etc.

Claim 39 is rejected for the same reasons as discussed above with respect to claim 22. Furthermore, Kugell et al. teach the steps of: a network interface (Fig. 1, 13) for reception of an incoming call leg designating a primary directory number and for transmission of an outgoing calls leg.

Claim 46 is rejected for the same reasons as discussed above with respect to claims 29 and 39.

4. Claims 10-11 and 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kugell et al. (U.S. Patent 5,802,160).

Regarding claims 13, Kugell et al. teach the steps of: receiving an incoming call leg as the result of a person placing the incoming call leg ("a calling party places a call at a calling telephone number 11") to a primary directory number ("representative telephone number"), the incoming call leg designating the primary directory number (col. 4, lines 3-36); a plurality of secondary directory numbers associated with the primary directory number (col. 1, lines 51-57 and col. 2, lines 15-22); processing and routing outgoing call legs associated with directory numbers to form a plurality of outgoing call legs (col. 6, line 61 through col. 7, line 3); monitoring the plurality of outgoing call legs for a plurality of answering events (col. 7, lines 4-6); and connecting an answered outgoing call legs associated with the plurality of answering events, to the incoming call

leg for a multiple leg telecommunication conferencing session (col. 3, lines 26-30).

Kugell et al. further teach the database for subscriber determination (adding numbers to conferencing mode or deleting numbers from the conference) of the plurality of secondary directory numbers (col. 1, line 66 through col. 2, line 6).

Kugell et al. do not explicitly teach providing an interface to the database.

It would have been obvious to one of ordinary skill in the art at the time the invention was made that one could add or delete numbers from the list stored at the telephone company via some kind of interface. For example, via telephone keypad, Internet access via computer, etc.

Regarding claims 10-11, Kugell et al. do not suggest terminating the multiple leg telecommunication conference session upon termination of the incoming call leg, or a penultimate call leg remaining from a plurality of call legs forming the multiple leg telecommunication conferencing session. Terminating the conference session upon a penultimate call leg being terminated is obvious and well known in the art, and the advantage of using it is also well known, simply there would not be a conference if there were only one conferee left.

5. Claims 21, 27 and 50-55 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kugell et al. (U.S. Patent 5,802,160) Caldwell (U.S. Patent 5,644,624) and further in view of Harlow et al. (U.S. Patent 5,206,901).

Regarding claims 21 and 27, Kugell et al. does not teach mobile switching center. However, Kugell et al. teach one of the secondary directory numbers is a cellular telephone number (Fig. 1, 24).

Harlow teaches the switching center is a mobile switching center (col. 4, lines 16-19).

It would have been obvious to one of ordinary skill in the art at the time the invention was made that in a wireless environment, there would be necessary to have a mobile switching center in order to service cellular telephone number 24.

Claim 52 is rejected for the same reasons as discussed above with respect to claim 39, Kugell et al. does not disclose mobile communication conferencing system. Harlow teaches a mobile switching center having an interface (col. 4, lines 16-19); a home location register is inherent in mobile communication; a conference bridge coupled to the mobile switching center is simply well known in the art. For example, participants use wireless telephone. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Kugell's system to include wireless environment. For example, a mobile switching center having an interface; a home location register; a conference bridge coupled to the mobile switching center, in order to better serve participants to the conference who utilize wire line and wireless.

Claim 53 is rejected for the same reasons as discussed above with respect to claims 52 and 13.

Regarding claims 50-51, Kugell et al. does not disclose the reception of a LocationRequest containing the pilot directory number, the home location register

transmits an ANSI-41 compatible LocationRequest RETURN RESULT to the mobile switching center, the ANSI-41 compatible LocationRequest RETURN RESULT containing a listing of each secondary directory number, the conference parameter, and corresponding routing, answering and terminating parameters for each secondary directory number. The use of ANSI-41 protocol is obvious at least in the mobile communications.

Claims 54 and 55 are rejected for the same reasons as discussed above with respect to claims 8 and 9, respectively.

***Allowable Subject Matter***

6. Claims 15-17, 30-34, 47-49, and 56-57 are allowed.

***Response to Arguments***

7. Applicant's arguments with respect to claims 1-57 have been considered but are moot in view of the new ground(s) of rejection.

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quynh H. Nguyen whose telephone number is 703-305-5451. The examiner can normally be reached on Monday - Thursday from 6:30 A.M. to 5:00 P.M.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ahmad Matar, can be reached on (703) 305-4731. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-305-4700.

qhn

Quynh H. Nguyen  
March 2, 2005



**BING Q. BUI**  
**PRIMARY EXAMINER**